ANANDALAYA
PERIODIC TEST -1
Class : XI

Subject: Computer Science (083)   MM :30
Date   :14-07-2023   Time: 1Hr. 30 min.

General Instructions:
1. There are 15 questions in this question paper. All questions are compulsory.
2. Q. No. 1 to 6 are short answer questions and carry 1 mark each.
3. Q. No. 7 to 11 are do as directed and carry 2 mark each.
4. Q. No. 12 to 14 are Predicting and carry 3 marks each.
5. Q. No. 15 is writing program and carry 5 marks.

1. Write base values of binary, octal and hexadecimal number system. (1)

2. What is the difference between keyword and a variable? (1)

3. What are escape sequences? (1)

4. Write full form of ASCII. (1)

5. List relational operators of python? (1)

6. What do you understand by comments in python? (1)

7. Rewrite the following code in python after removing all syntax error(s). Underline each (2)
    correction done in the code.
    ```
    x=int("Enter value of x:")
    for  in range[0,10]:
       if x=y:
          print (x+y)
       else:
          Print (x – y)
    ```

8. Rewrite the following code in python after removing all syntax error(s). Underline each (2)
    correction done in the code.
    ```
    V1=250
    0 = i
    while V1=>1200:
       if V1<=750:
          print (V1)
          V1 =+ 250
       else:
          print( "V"*i)
          i=i+1
          V1=V1+250
    ```

9. What will be the output of the following code : (2)
    ```
    a , b = 5 , 6
    a , b = b , a+2
    print(a, a-b, a+b, b)
    ```

10. Write Python expression equivalent to the following arithmetic/algebraic expressions: (2)

 (a) $P = \frac{a+b+c}{2}$ (b) $C = \frac{3^2+5^2+7^2}{5}$

11. Identify invalid variable names from the following. Give reason for each. (2)
 (a) My-File   (b) _Face   (c) True   (d) BioData

12. What will be the output produced by the following code fragment? (3)
```
x=3
for i in range(x):
    print(i,"&",x)
    if x==3:
        break
print(x)
```

13. What will be the output produced by the following code fragment? (3)
```
A1=4
B1=60
for i in range(2):
    B1=B1+5
    print(B1,"#",A1)
    A1=B1%A1
```

14. Express the following decimal numbers into equivalent Hexadecimal numbers (3)
 (A) 101   (B) 96   (C) 129

15. Write python to display first 10 Fibonacci numbers. (5)